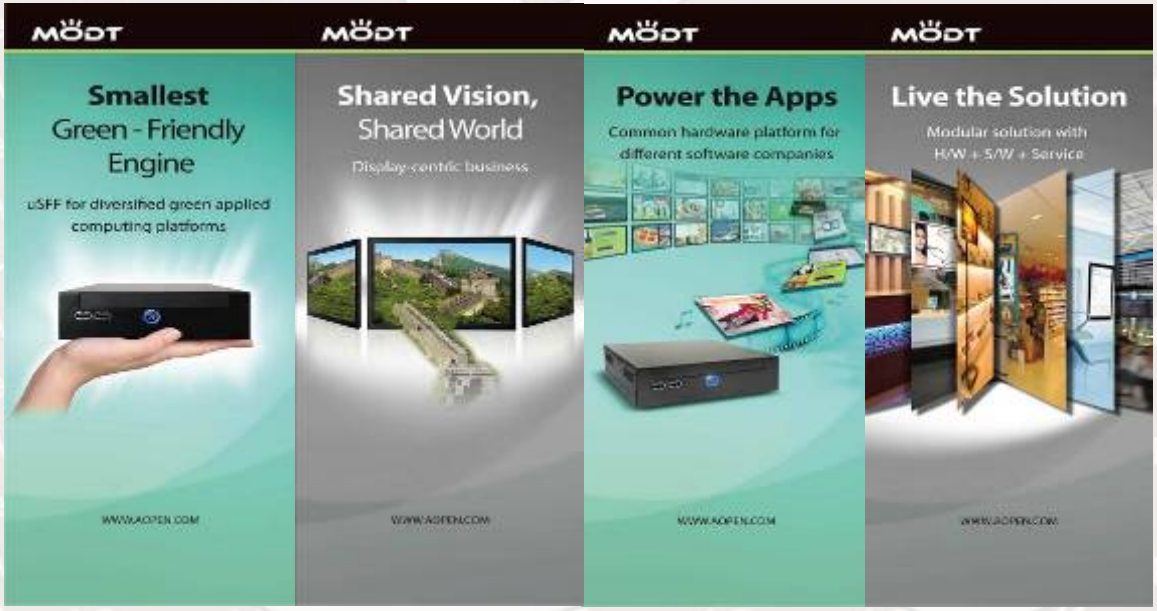
Y2012 Product Roadmap Update
Digital Signage



AOpen Product Team

Q4, 2011

Digital Signage Product Portfolio

Digital Engine

- CPU/GPU performance
- Fanless
- Non-Venting-Hole

Scalability

Warm Touch

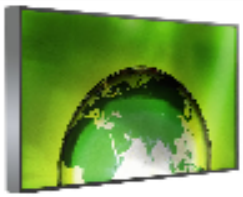
- Module Integration
- Touch Technology
- Industry IP design

Interactivities

Digital Signage Display (DSD)

- Industrial grade design
- Wide LCD applications
- Software integration

Dynamics



Server and VAM

- Value integration
- Product portfolio
- Networking

Completeness

SW & Services

- Business-centric
- Optimization
- Going-concern

Customer-centric

Titan Mounting

- Robustness
- Accessibility
- Compliant

Adaptability

nformation
out notice
Sept, 2011

DE Product Introduction

Digital Engine

- 1.2L smallest Form Factor, a miniATX modulization design for scalability and assembly feasibility
- Embedded product life cycle support, Video acceleration, Enhance Graphics, Multiple display, HDMI, Full HD 1080P and 720P
- Targeted on ACP market, High Reliability, Versatile usage

  CPU performance models : Engine 6x/5x/4x series
  GPU graphic intensive models : Engine 3x/7x series
  Slim, Fanless(FL) and Non-Venting-Hole(NVH) models : DEX series
- Joint System Performance & Stability certified with software parties*

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Digital Engine Roadmap 1

Q4'11	Q1'12	Q2'12	Q3'12	Q4'12

DE67

FHD 1080P, DX10.1, Intel QM67, 1.2L
2nd. Gen. Sandy Bridge CPU, FSB 1333
USBx2, Comport, Audio, USB3.0x2, DVI-I, Display port, GbE,
iAMT7.0, WDT, AC-adapter 19V/90W

DE57

FHD 1080P, DX10, Intel QM57, 1.2L
Socket 988 for Arrandale CPU, FSB 1066
USBx2, Comport, Audio, USBx2, DVI-I, HDMI, DVI-I, GbE,
iAMT6.0, WDT, AC-adapter 19V/90W

DE45

FHD 1080P, DX9, Intel GM45, 1.2L
Socket P, Penryn CPU FSB 667/800
USBx2, Comport, Audio, USBx2, VGA, HDMI,
GbE iAMT, WDT, AC-adapter 19V/90W

DE35

FHD 1080P, DX11, A55E, Brazos, 1.2L
G-series BGA CPU, T56N , ATI HD Graphics Controller in CPU
USBx2, Comport, Audio, USB3.0x2, USBx2, DVI-I, Display port, GbE
WDT, AC-Adapter 19V/90W

DE7000

FHD 1080P, DX10, nVidia MCP7ALP, 1.2L
Socket P, Penryn CPU FSB 1066, GeForce9300
USBx2, Comport, Audio, USBx4, HDMI, VGA, GbE, eSATA
WDT, AC-Adapter 19V/90W

FHD 1080P, DX11, A75, 1.2L
G-series BGA CPU, eTrinity , ATI HD Graphics Controller in CPU
USBx2, Comport, Audio, USB3.0x2, USBx2, DVI-I, Display port, GbE
WDT, AC-Adapter 19V/90W

Digital Engine Roadmap 2

Q4'11	Q1'12	Q2'12	Q3'12	Q4'12

DE2700

HD 720P, Fanless, DX9, Intel GME945GSE, 1.7L
Atom N270, 1GB SODIMM, FSB 533
2.5HDD cage, CF slot, USBx2, DVI-I, Audio, Comportx2, GbE
AC-adapter 19V/65W

DEX3000

FHD 1080P, Fanless & Non Venting Hole 1.7L
Intel Cedar Trail-D D2700, DX10.1
BGA Atom, 1GB SODIMM
Mini card, USBx4, HDMI, VGA, COM port, WDT

DEX4500

FHD 1080P, Aluminum, Fanless & Non Venting Hole, 2.4L
Intel GM45, Socket P for Penryn CPU (25W), FSB1066, DX9
mini card x 2, USBx8, HDMI, DVI-I, COM port, WDT
AC-adapter 19V/90W

FHD 1080P, Aluminum, Fanless & Non Venting Hole, 2.4L
Intel QM67, 2nd. Gen. Sandy Bridge CPU, FSB 1333
USBx2, Comport, Audio, USB3.0x2, DVI-I, Display port, GbE, AMT7.0, WDT,
AC-adapter 19V/90W

DE2750

HD 720P, 2.4L Aluminum, Fanless & Non Venting Hole, 2.4L
Intel 945GSE, ATOM N270, 1GB SODIMM, DX9
DVI-I, mini Card x 1, CF x 1, USB, COM port

DE Titan Product

	Y2012	Y2013
DE Titan Kit LH and VS	LH01 LH02 VS01	
DE Titan VM	VM01 VM02 VM03 VM04	

DE Server Product

	Y2012	Y2013
Engine Core 700	**Max support 6Pcs Digital Engine** **12cm fanX2** **Support for DE-965 DE-45 DE-2700/7000**	
Engine Core 300	**Max support 3Pcs Digital Engine and 5.25”** **Space X5** **12cm fanX1**	

Engine Core Design architecture

Form Factor Element same as DE

Form Factor Element same as DE

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Engine Core 700 Workstation for 4U Rack

Configuration:

- Chassis dimension :Dual purpose for rack mount and stand alone
  178(H) x 482(W) x 571(D)mm (Rack mount, w/handle)
  178(H) x 426(W) x 555(D)mm (Stand alone, w/o handle)
- Accommodate Digital engine x 7 sets, Adaptor (90W or 65W) x 6 pcs
- System cooling fan (12cm) x 3 pcs
- Front door with key lock
- Internal detachable frame x 1 (for device expandable)
- Changeable dust filter behind the front door
- Detachable front handle for rack mount or stand alone ussage
- Redundant Adaptor Power management box (with Digital Engine form factor):
  Collect 6pcs adaptor's power & re-distribute to 6 DE.

Rack mount type

Stand Alone type

Unique Design:

- Chassis fit in 19" 4U rack mount standard and can be used as stand alone Engine Core Tower
- Internal detachable frame design for for extra device (KVM or Router or Hub Switch...)
- Excellent system cooling air flow and dust filter design
- Reserve customize rear I/O port bracket
- Hot Swap Fan
- Redundant Adaptor Power function is supporting hot swap feature, any failure of back up power of adaptors could be changed without impact to the power system running.

Engine Core 700 Features

Holding cover to fix Digital Engine
Security Key lock
Changeable dust filter behind the front door
Detachable handle
Internal Adaptor Holder
Removable frame for device expandable
Cable management outlet & Rear I/O port bracket
12cm Cooling fans

DE67-HA

CPU

Socket H2 supports Intel Sandy Bridge mobile CPU TDP=35W (TDP=45W option)

CHIPSET

PCH: Ibex QM67

MEMORY

DDRIII SO-DIMM 1333 x 2 up to 8GB (base on OS support)

GRAPHICS

Intel HD Graphics Controller in CPU

LAN

Intel GbE LAN controller Intel WG82579LM

AUDIO

Realtek HD AUDIO CODEC ALC662

EXPANSION SLOTS

mini Card slot x 2 (Full size x 1, Half size x 1)

Drive Bay

SATA Slot-in Slim ODD x 1

2.5” SATA 2 HDD x 1

WDT

1 ~255 sec/min

On Board I/O

USB x 4

Proprietary SATA connector

Front Panel I/O

USB 2.0 port x 2

Power Button and Power, HDD indicator LED

Rear Panel I/O

DP x 1

DVI-I x 1 (include HDMI x 1, VGA x 1)

USB 3.0 x 2

HD Audio 2 ports (speaker out, Mic in)

GbE LAN RJ45 x 1

COM port x 1 (RS232)

DC **20/12V** connector (with 90W power adaptor)

Form Factor

Cooler Supports up to TDP=35W CPU

166 (H) x 157.5 (L) x 48 (W) mm

Weight : 1.25kg (N.W. of full System)

Volume : 1.25 liters

Housing material 0.8mm SECC

Schedule

Production : NOW

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DE35

CPU

AMD Embedded G-series BGA CPU Dual Core , TDP 18W T56N(1.6GHz)
or T48N(1.4GHz)

CHIPSET

AMD FCH Hudson-1 (A55E)

MEMORY

DDRIII SO-DIMM 800/1066 x 2 up to 8GB (base on OS support)

GRAPHICS

ATI HD Graphics Controller in CPU

LAN

GbE LAN controller

AUDIO

Realtek HD AUDIO CODEC ALC662

EXPANSION SLOTS

mini Card slot x 2 (Full size x 1, Half size x 1)

Drive Bay

2.5” SATA 2 HDD x 1

WDT

1 ~255 sec/min

On Board I/O

USB x 2

Standard SATA connector

Front Panel I/O

USB 2.0 port x 2

Power Button and Power, HDD indicator LED

Rear Panel I/O

Display port x 1

DVI x 1 (include HDMI (with audio) x 1, VGA x 1)

USB 2.0 x 2,

USB 3.0 x 2

HD Audio 2 ports (speaker out, Mic in)

GbE LAN RJ45 x 1

COM port x 1 (RS232)

DC 20/12V connector (with 90W power adaptor)

Form Factor

Cooler Supports up to TDP=18W CPU

166 (H) x 157.5 (L) x 48 (W) mm

Weight : T.B.D.

Volume : 1.25 liters

Housing material 0.8mm SECC

Schedule

Production Now

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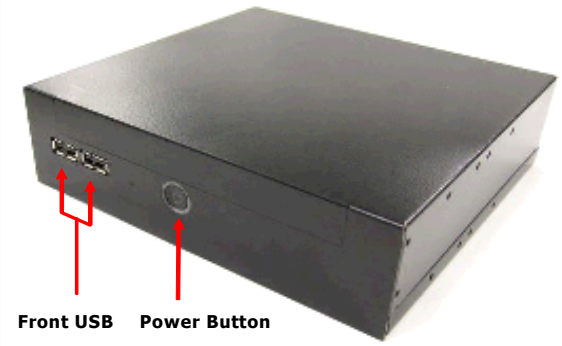
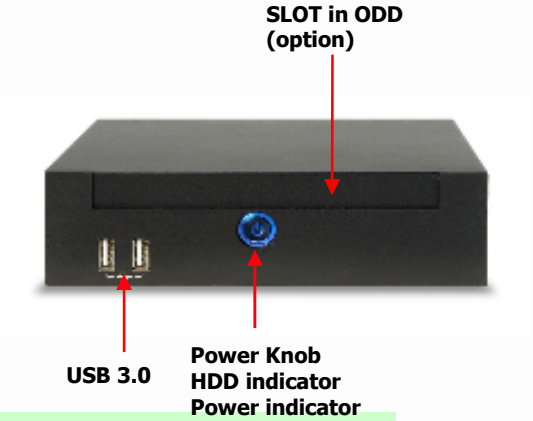
Connectivity placement DE67&DE35

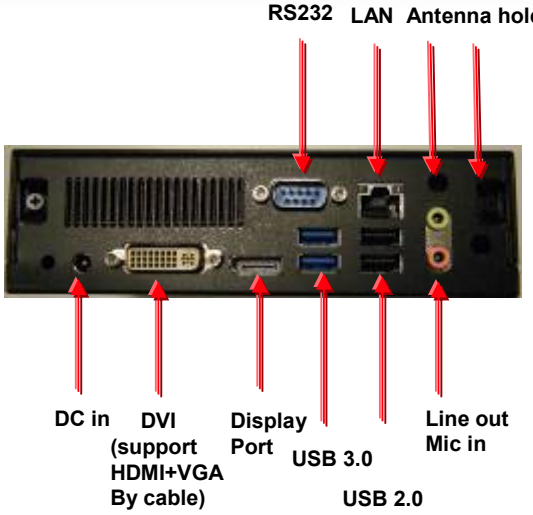
DE 35 of Front I/O



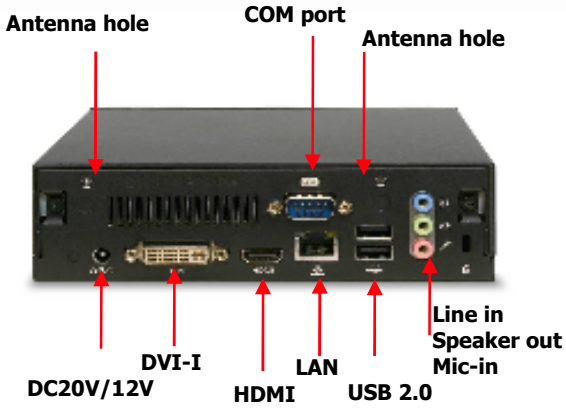
DE 67 of Front I/O



DE 35 Rear I/O



DE 67 Rear I/O



DE57-HA

CPU

Intel Core™ i5, i7 series (Arrandale) TDP 35W CPU

CHIPSET

PCH: Ibex QM57 (Calpella platform)

MEMORY

DDRIII SO-DIMM 800/1066 x 2 up to 8GB (base on OS support)

GRAPHICS

Intel HD Graphics Controller in CPU

LAN

Intel GbE LAN controller Intel WG82577LM

AUDIO

Realtek HD AUDIO CODEC ALC662

EXPANSION SLOTS

mini Card slot x 2 (Full size x 1, Half size x 1)

Drive Bay

SATA Slot-in Slim ODD x 1

2.5” SATA 2 HDD x 1

WDT

1 ~255 sec/min

AMT

Support Intel AMT 6.0

On Board I/O

USB x 4

Proprietary SATA connector

Front Panel I/O

USB 2.0 port x 2

Power Button and Power, HDD indicator LED

Rear Panel I/O

HDMI x 1

DVI-I x 1 (include Single Link DVI x 1, VGA x 1)

USB 2.0 x 2

HD Audio 3 ports (Line-in, speaker out, Mic in)

GbE LAN RJ45 x 1

COM port x 1 (RS232)

DC 20/12V connector (with 90W power adaptor)

Form Factor

Cooler Supports up to TDP=35W CPU

166 (H) x 157.5 (L) x 48 (W) mm

Weight : 1.25kg (N.W. of full System)

Volume : 1.25 liters

Housing material 0.8mm SECC

Schedule

Production Now

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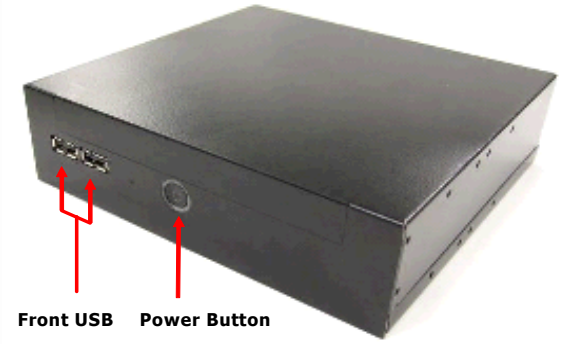
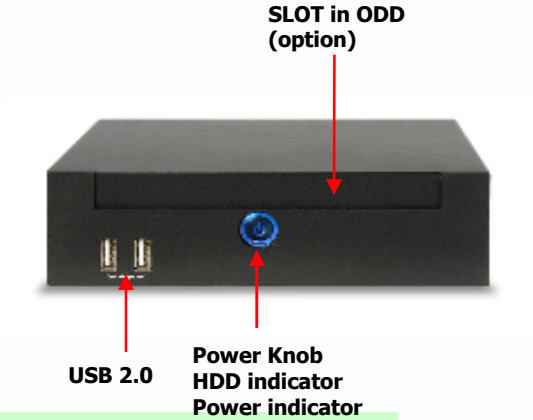
Connectivity placement DE57&DE45

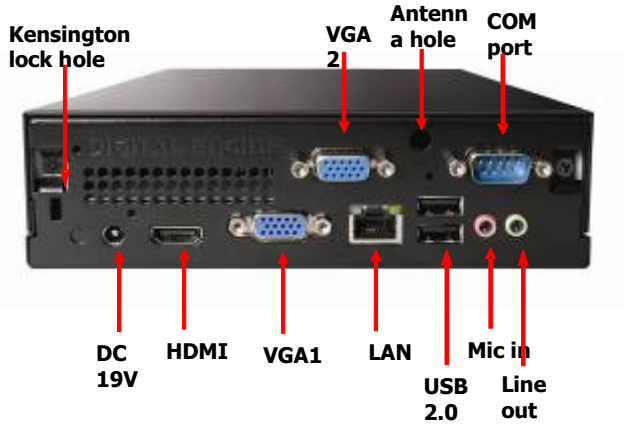
DE 45 of Front I/O



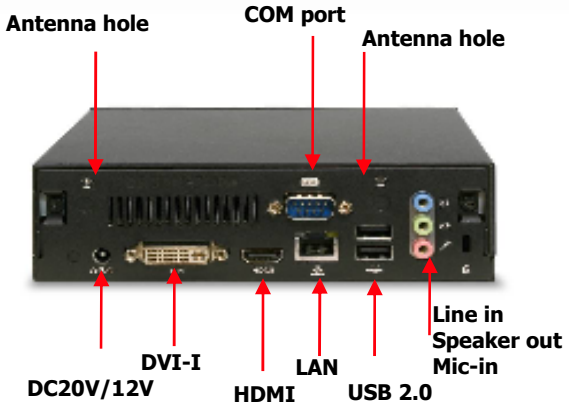
DE 57 of Front I/O



DE 45 Rear I/O



DE 57 Rear I/O



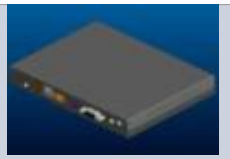
Application System Solution

Media Express

Application System Roadmap

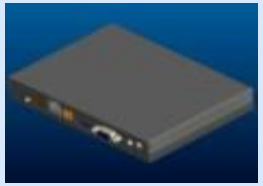
Q3'11	Q4'11	Q1'12	Q2'12	Q3'12	Q4'12

Freescale i.MX6x series
- ARM Cortex A9 1.2GHz
- HD 1080P decode / encode
- bleeding edge 3D graphics
- Power management
- Comprehensive security



ME03A0
ES: Q3 2012
MP: Q4 2012

Freescale i.MX53 series
- ARM Cortex A8 1GHz / 1.2GHz
- HD 1080P decode, 720P encode
- Adobe Flash 10.1/10.2 acceleration



ME02B0
Automotive, Industrial
HDMI, VGA, SPDIF, UART, GPIO, I2S, SATA, CCIR, CAN-bus
ES: Q4 2011

ME02A0
Digital Signage
HDMI, VGA, UART, GPIO
ES: Q4 2011
MP: Q1 2012

ME02A0
IP-STB
HDMI, AV-out, USB, Digital tuner support
ES: Q3 2012

Freescale i.MX51 series
- ARM Cortex 600 / 800MHz
- 720P decode, D1 encode
- 2D/3D graphic

MER51A
Digital Signage
DVI, VGA, COMx2, LAN, SD-card
ES: Q3 2011
MP: Q4 2011

MER51A

- **Main**
  - Freescale i.MX515 800MHz processor
  - Memory DDR2 512MB
  - Android 2.2
  - Box size: 210 x 125 x 47 mm
- **Digital Signage Application**
  - HD 720P
  - Media player for multi-zone playlist
  - Network protocol setup. File System Support
  - SUB, SRT, SSA, SMI
- **Connectivity**
  - WiFi module (optional)
  - 3G module (optional)
  - Bluetooth module (optional)
  - SD card slot x1
- **Hardware Ports**
  - DVI, VGA
  - Ethernet 10/100
  - Stereo audio
  - COM1: full function; COM2: debug
  - USB Host x3, OTGx1
  - Watch Dog Timer
  - DC-in 5V
  - SDHC slot
- **Accessory**
  - 2G SD card
  - 5V 4A 20W adapter
  - Mounting bracket
- **Schedule**
  - ES : Sep. 2011
  - MP : Nov. 2011

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MER51A ID

Front panel:

Box size: 166(W) x124.4(D)x 48(H) mm

Rear panel:

Open Mind & Global Vision

Thank You
& welcome to visit our showroom